

2U 20-Slot Managed Chassis

IPS20

The CTC Union IPS20 is a 2U 19" rack with 20 slots for holding up to 20 interchangeable and hot-swappable CTC Union blades such as Digital Video Encoder, Decoder and Fiber Media Converter. The power modules are designed for redundant power supply capability for reliable and professional installation. The IPS20 gives flexibility, scalability, and functionality to construct a multi-task system.

Features

- 2U 19" 20 slots Chassis with AC/DC power redundancy
- Chassis mainboard consists of passive components
- All modules and cards support hot-swap function
- Support Intelligent Digital Video Server blade card
- Supports H.264 Digital Video Encoder and Decoder blade card
- Support Fiber Media Converter series product



Specifications

Physical Specifications	Dimension	303 x 438 x 88mm (W x D x H)
	Weight	5.2kg without power supply
Power Characteristics	AC	100 ~ 240VAC
	DC24	18 ~ 36VDC
	DC48	36 ~ 75VDC
Environmental Specifications	Operating	-10°C ~ 60°C
	Storage	-20°C ~ 70°C
	Relative humidity	10% ~ 90% non-condensing
	Predicted MTBF	75,000 hrs
Certification	FCC class A, VCCI class A, CE, RoHS	

20 Slot Multi-service Platform

Technologies Supported:

- DVS-8501E blade Card(1-slot, 1-ch H.264 digital video encoder)
- DVS-8501E-H blade Card (2 slots, 1-ch H.264 digital video encoder with hard disk interface)
- DVS-8504E-FD blade Card (2 slots, 4-ch H.264 digital video encoder)
- DVS-8501D blade Card (1 slot, 1-ch H.264 digital video decoder)
- iDVS-01 blade Card(2 Slots Intelligent video server for Surveillance and Transportation applications)
- Fiber Media Converter series products. (Refer to FRM220 series)

Thermal fan Holes



Chassis backplane consists of passive components

Hot swappable cooling fans



Single or optional redundant power supply

1 Channel Digital Video Encoder

DVS-8501E

- H.264/ M-JPEG Video Compression
- Up to D1 resolution @ 30FPS,(NTSC) @ 25FPS (PAL)
- 1 Video in, 1 audio in/out
- 1 Digital Input/ 1 Digital Output
- 1xRS-485(DB9 interface)
- Pelco D, P PTZ Protocol



1 Channel Digital Video Encoder with H.D.D Interface

DVS-8501E-H

- Support 2.5" SATA hard-disk tray for local storage
- H.264/ M-JPEG Video Compression
- Up to D1 resolution @ 30FPS,(NTSC) @ 25FPS (PAL)
- 1 Video in, 1 audio in/out
- 1 Digital Input/ 1 Digital Output
- 1xRS-485(DB9 interface)
- Pelco D, P PTZ Protocol



1 Channel H.264 Intelligent Digital Video Encoder

iDVS-01

Video Encoder

- Multiple H.264 streams
- D1 resolution @ 30FPS(NTSC), @ 25FPS (PAL)
- 1 video in / out, 1 audio in / out
- Built-in Web server for management
- Supports HTTPS and password protection
- Supports logic (AND / OR) event alarms
- Supports two-way audio
- 1 Digital Input / 1 Digital Output

Intelligent function

- Tripwire Detection
- Intrusion Detection
- Virtual Fence Detection
- Missing Left Detection (option)
- Abandoned Objects Detection
- Video Loss Detection
- Scene change Detection (option)



1 Channel Digital Video Decoder

DVS-8501D

- Complies with H.264 compression
- Provides high quality analog video and audio decoding
- Programmable sequence mode for multiple video sources
- Decodes video source up to 64CH
- Support two-way audio



Fiber Media Converter



- Support FRM220 Fast Ethernet and Gigabit Ethernet series slide-in card
- Increase surveillance platform transmission capability
- Allow network administrators to deploy the chassis in wide range of network
- Easy to build flexible and scalable network infrastructure

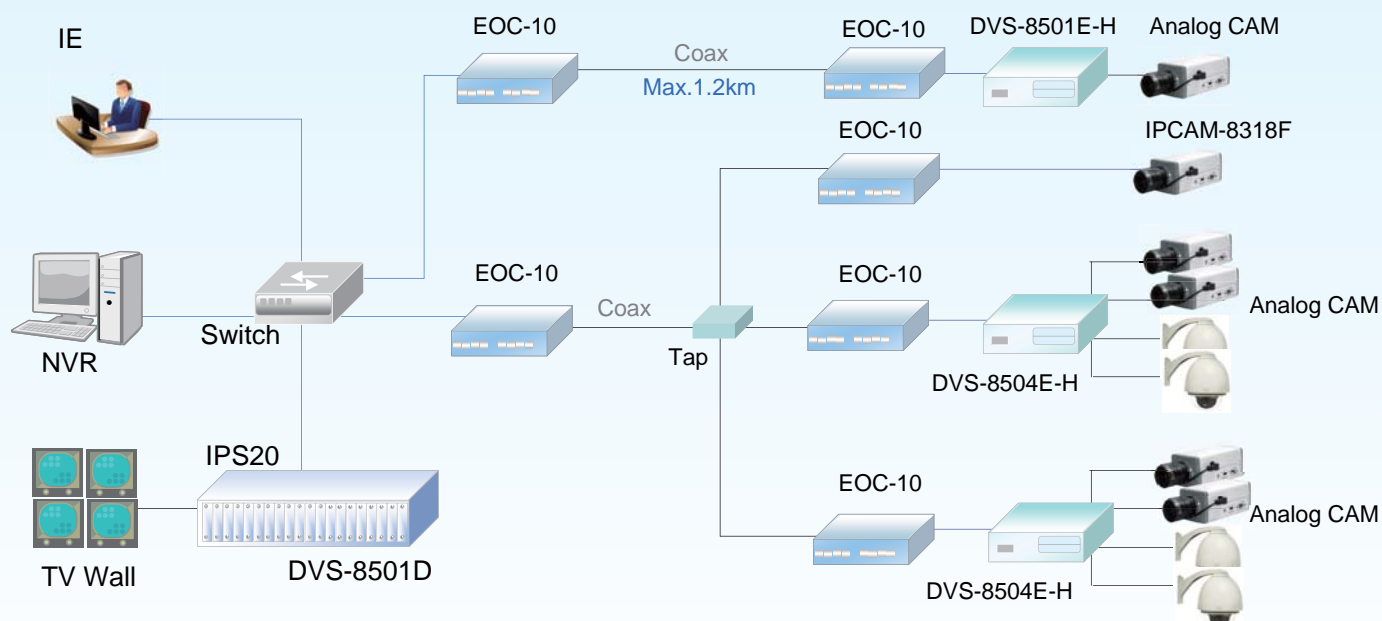


Ordering Information

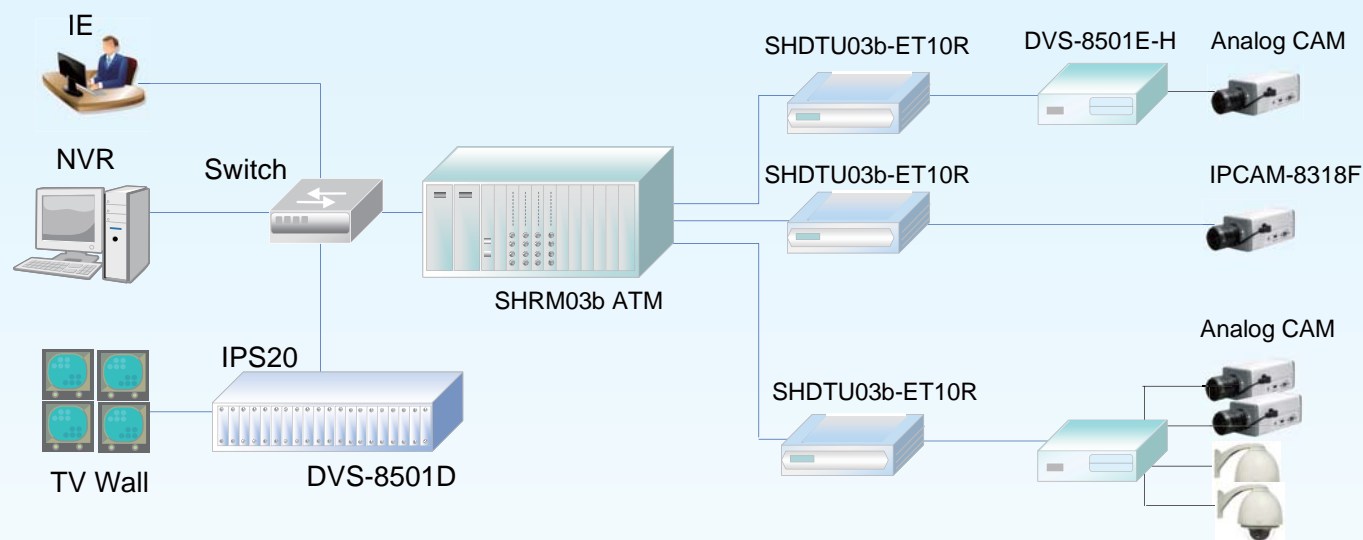
Model Name	Type	Description
IPS20	Chassis	2U, 19" 24 ports G703 balun patch panel rack
IPS20-AC	Power	100 ~ 240VAC power supply module, IEC connector
IPS20-DC24	Power	18 ~ 36 VDC power supply module, 3 pin terminal block
IPS20-DC48	Power	36 ~ 72 VDC power supply module, 3 pin terminal block

IPS20 –
Example: IPS20 – DC24

IP Surveillance with Ethernet over Coax Application



IP Surveillance with G.SHDSL.bis Application



IP Surveillance Blade Card Chassis

CTC Union's IP surveillance solution is a highly efficient system based on a universal blade design. The high quality H.264 DVS (Digital Video Server) can provide full D1 resolution with 30/25 (NTSC/PAL) FPS.

DVS blades can fit in IPS series racks together with CTC Union's FRM fiber series blades to form a complete and multi-functional solution. The hot swappable blades also enable a quick replacement of internal drives for lower maintenance cost and less Mean Time To Repair.

The risk of video data loss resulting from transmission or central system error will never be a trouble again. CTC Union's DVS series provides unique and powerful local storage capability to minimize this kind of risk, thanks to CTC Union's modular blades design. Now customers can build up an IP surveillance system according to the exact channels they want. By using the 1 channel single blades design, customers have the best flexibility and scalability ever! In addition to DVS, CTC Union also provides various IP cameras for customers who intend to build up a pure IP surveillance system directly. As for the monitoring and recording tasks, CTC Union's high performance NVR (Network Video Recorder) can provide a convenience and easy-to-use platform for analyzing, distributing, and managing image data.

CTC Union is dedicated to providing our customers the most efficient way to build up a system and create value!

1-Slot H.264 Digital Video Encoder / Decoder Chassis

IPS01



The CTC Union IPS01 is a single slot rack for holding one CTC Union blades such as Digital Video Encoder and Fiber Media Converter. The built-in power module is designed for convenience and professional installation. The IPS01 gives flexibility, scalability, and functionality to make a high performance standalone.

Features :

- 1-slot chassis for encoder, decoder line cards.
- Available in six types: external power adapter or power built-in AC, DC, AC+DC, AC+AC or DC+DC.
- Fanless
- Dimensions :
external power 139 x 88 x 24mm (D x W x H)
internal power 180 x 135 x 30mm (D x W x H)

Power Input :

Power adapter

Input voltage : 100 ~ 240VAC 50/60Hz Output voltage :12VDC 1A

AC power : 100 ~ 240VAC DC power : 24VDC, 48VDC, 72VDC

1 slot Multi-service Platform Technologies Supported

- DVS-8501E (1-slot, 1-ch H.264 digital video encoder)
- DVS-8501D blade Card (1-slot, 1-ch H.264 digital video decoder)
- Fiber Media Converter series products. (Refer to FRM220 series)



Ordering Information

Model Name	Description
IPS01	1 Slot Chassis with 100 ~240VAC to 12VDC adaptor
IPS01-AC	1 Slot Chassis with 100 ~240VAC Power
IPS01-DC	1 Slot Chassis with 18 ~75VDC Power
IPS01-AD	1 Slot Chassis with 100~240VAC + 18 ~75VDC Power

IPS01 – ☐☐

Example: IPS01 – AC

2-Slot H.264 Digital Video Encoder / Decoder Chassis

IPS02

The CTC Union IPS02 is a 2-slot rack for holding up to 2 interchangeable and hot-swappable CTC Union blades such as Digital Video Server and Fiber Media Converter. The IPS02 gives flexibility, scalability, and functionality to make a high performance standalone device.



Features :

- 2-slot chassis for encoder, decoder line cards
- Supports either one or two single width blades or one double width blade.
- Power type: external power adapter
- Fanless
- Dimensions: 139 x 88 x 44.5mm (D x W x H)

Power Input :

Power adapter Input voltage : 100 ~ 240VAC 50/60Hz
Output voltage : 12VDC 2A

2-slot Multi-service Platform Technologies Supported

- DVS-8501E (1-slot, 1-ch H.264 digital video encoder)
- DVS-8501E-H Blade Card (2-slot, 1-ch H.264 digital video encoder w/hard disk)
- DVS-8504E-FD Blade Card (2-slot, 4-ch H.264 digital video encoder)
- DVS-8501D Blade Card (1-slot, 1-ch H.264 digital video decoder)
- Fiber Media Converter series products. (Refer to FRM220 series)



Ordering Information

Model Name	Description
IPS02-DC12-1	2 slot Chassis with 100 ~240VAC to 12VDC adaptor(1 DC Jack)
IPS02-DC12-2	2 slot Chassis with 100 ~240VAC to 12VDC adaptor(2 DC Jack)

IPS02 – □□□□ – □

Example: IPS02 – DC12 – 1

4-Slot H.264 Digital Video Encoder / Decoder Chassis

IPS04

The CTC Union IPS04 is a 4-slot rack for holding up to 4 interchangeable and hot-swappable CTC Union blades such as Digital Video Server and Fiber Media Converter. The IPS04 gives flexibility, scalability, and functionality to help construct a multi-task system.



Features :

- Four slots chassis for encoder, decoder line cards
- Supports backplane connection between four slots
- Supports one to four single width blades or two double width blades.
- Fanless
- Dimension : 162 x 87 x 88mm (D x W x H)

Power Input :

Power adapter
Input voltage : 100 ~ 240VAC 50/60Hz Output voltage : 12VDC 3A
AC power : 100 ~ 240VAC DC power : 24VDC, 48VDC, 72VDC

4-slot Multi-service Platform Technologies Supported

- DVS-8501E (1-slot, 1-ch H.264 digital video encoder)
- DVS-8501E-H Blade Card (2-slot, 1-ch H.264 digital video encoder w/hard disk)
- DVS-8504E-FD Blade Card (2-slot, 4-ch H.264 digital video encoder)
- DVS-8501D Blade Card (1-slot, 1-ch H.264 digital video decoder)
- Fiber Media Converter series products. (Refer to FRM220 series)



Ordering Information

Model Name	Description
IPS04	4 slot Chassis with 100 ~240VAC to 12VDC adaptor

1-Ch H.264 Digital Video Encoder

DVS-8501E

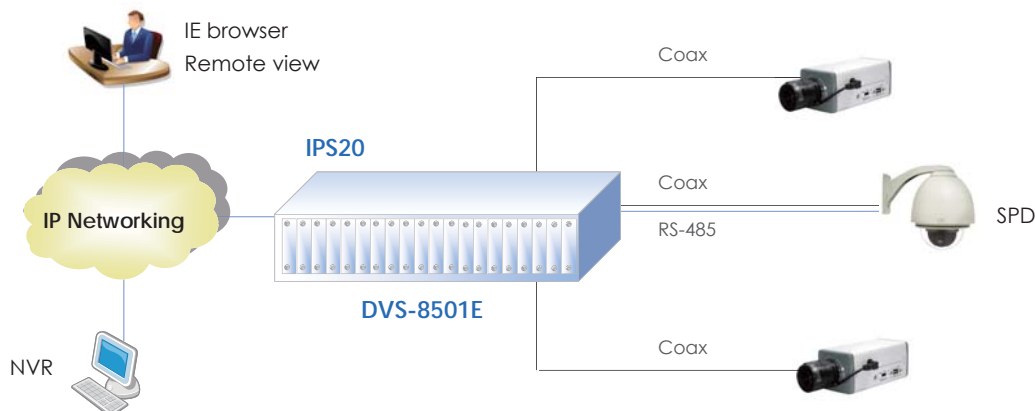


CTC Union DVS-8501E Video Encoder Blade is a 1-ch video encoder provides H.264 & M-JPEG cutting edge video compression technologies. It can deliver multiple or individual configurable video streams simultaneously with full D1 resolution at 30/25 (NTSC/PAL) FPS and remote monitoring. This means that several video streams can be configured with different resolutions, frame rates and bit rate for different needs. The DVS-8501E can also provide dual-stream transmissions for recording and monitoring. The web management offers the convenience user access to detailed alarm detection and actions. When the DVS-8501E blades are used with CTC IPS series racks, this combination can effectively convert the analog security systems to high efficient performance IP based solution.

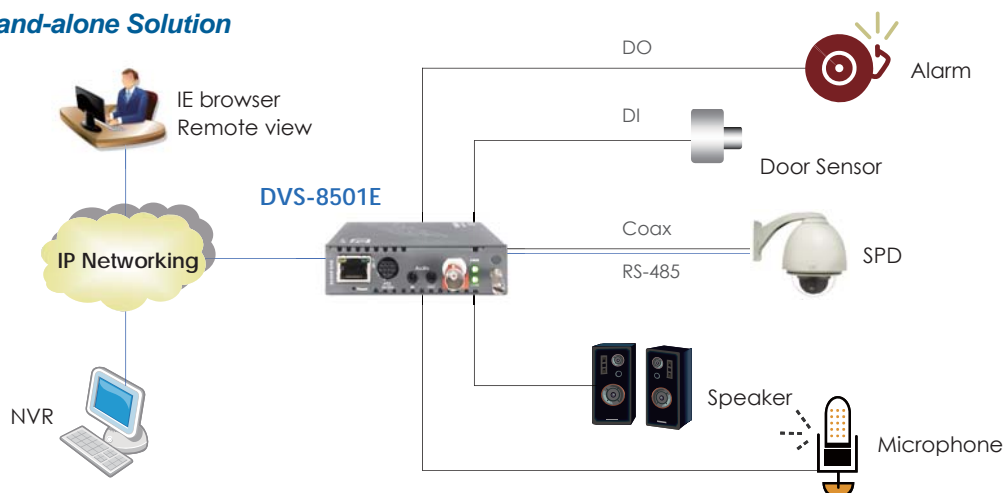
Features

- Multiple H.264 streams
- D1 resolution @ 30FPS,(NTSC) @ 25FPS (PAL)
- 1 video in, 1 audio in / out
- Built-in Web server for management
- Supports HTTPS and password protection
- Multiple H.264 streams
- D1 resolution @ 30FPS,(NTSC) @ 25FPS (PAL)
- 1 video in, 1 audio in / out
- Built-in Web server for management
- Supports HTTPS and password protection

DVS 8501E Rack Solution



DVS 8501E Stand-alone Solution



Ordering Information

Model Name	Description
DVS-8501E	1-Ch H.264 Digital Video Encoder

Specifications

Video Compression

H.264/M-JPEG

Video Stream

Main Stream, Sub stream (Main Stream to select D1 or 4CIF)
(Slave stream only to select CIF or QCIF)

Video Resolutions

D1: 720x480(NTSC)/720x576(PAL)
4CIF: 704x480(NTSC)/704x576(PAL)
2CIF: 704x240(NTSC)/704x288(PAL)
CIF: 352x240(NTSC)/352x288(PAL)
QCIF: 176x120(NTSC)/176x144(PAL)

Operating System

Embedded Linux

Video Frame Rate

1 ~ 30 FPS

Video Quality

5 levels (Medium, standard, good, detailed, excellent), Auto

Video Input

1, BNC, 75 ohm, 1 Vp-p

Network Connector

RJ-45, IEEE 802.3 10Base-T, 802.3u 100Base-TX

Network Protocols

TCP, UDP, IP, ICMP, PPPoE, ARP, UPnP, HTTP, HTTPS, FTP, SMTP, DHCP, DNS, DDNS, RTP, RTSP, NTP

Audio Inputs

1 channel audio, Microphone in

Audio Output

1 channel audio, Line out

Audio Compression

ADPCM G.711

Audio Stream

Two-way (H.264 only)

Input / Output Signal

6V p-p, +10dBm max

Input / Output Impedance

600 ohms

Terminal Block

1xRS-485 (DB9 interface), 1 alarm input, 1 alarm output

PTZ Protocol

Pelco D, P

PTZ Baud Rate

2400, 4800, 9600, 12800, 19200 Kbps

PTZ Control Speed

Pan, Tilt, Zoom, Focus, Iris

PTZ Preset

32 Preset positions

PTZ Patrol

4 Tour mode (Each mode has 10 positions)

Remote Management

Web (CGI), SNMP v1/v2c

Dimension

Line card type: 88 x 137 x 20.8mm (W x D x H)

Operating condition

-10 ~ 60 degree (Celsius)

Storage condition

-20 ~ 85 degree (Celsius)

Operating Humidity

0 ~ 95% (non-condensing)

Power Input

12VDC, 1A

System Reset

Reset button (factory default)

LED Indications

Power, LAN, video status

Motion Detection

Drag and drop configurable detection windows

Configuration Backup /Recovery

Web browser

Firmware Upgrade

Web browser

NTP

Sync with PC, Sync with NTP server, Manual

Video Adjustment

Brightness, contract, saturation, color tone level

User Account

Up to 10 user accounts for configurable

Event Action

FTP, E-mail, DO1, SMS, remote storage, PTZ preset

Event Sending Path

FTP; E-mail (forwarding JPEG picture)

Digital Zoom

4x

Snapshot

Live view mode (JPEG format)

Event Define

User define video frame rate and video resolution and video quality when alarm input and motion detection

Text Overlay

Configurable text color, background color, date/time, display position

Privacy Mask

Support 3 privacy mask window

System Language

English, Simplified Chinese, Traditional Chinese

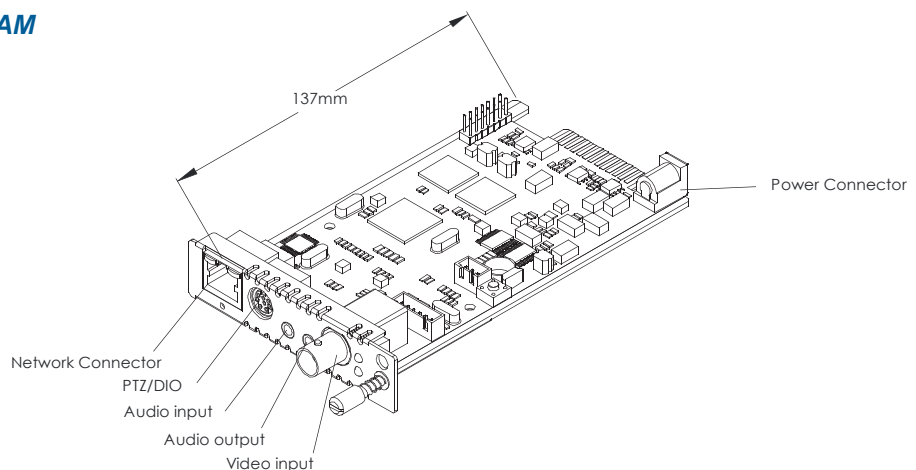
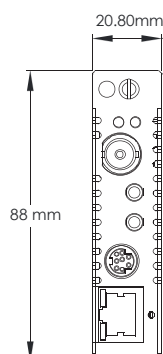
Log

System log, operating log

NVR Support

CTC Union , NUUO

DIMENSION DIAGRAM



1-Ch H.264 Digital Video Encoder w/ Hard Disk

DVS-8501E-H

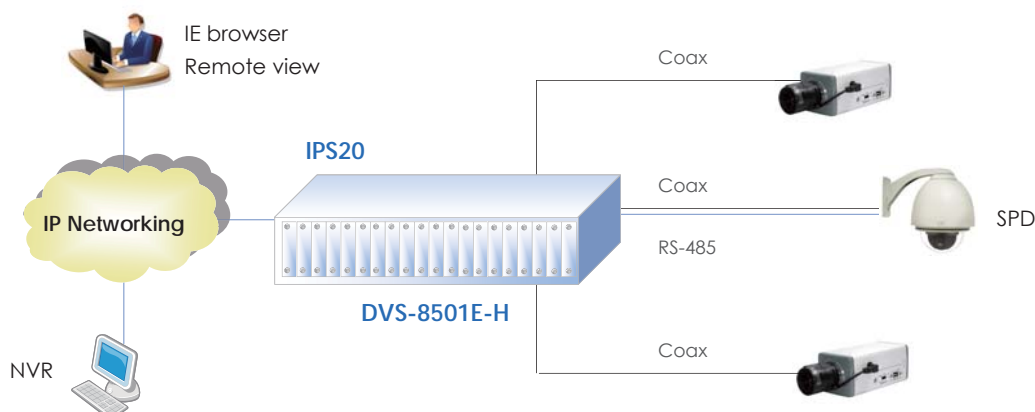


CTC Union DVS-8501E-H Video Encoder Blade is a 1-ch video encoder provides H.264 & M-JPEG high performance video compression technologies. It can deliver multiple or individual configurable video streams simultaneously with full D1 resolution at 30/25 (NTSC/PAL) FPS and remote monitoring. The DVS-8501E-H can also provide dual-stream transmissions for recording and monitoring. The built-in SATA interface enables powerful storage capability for the DVS-8501E-H to do the video streaming transmission and local storage at the same time. The web management offers the user convenience access to detailed alarm detection and actions. When DVS-8501E blades are used with CTC IPS series racks with various channels choices, this combination can effectively convert the analog security systems to high performance IP based solution.

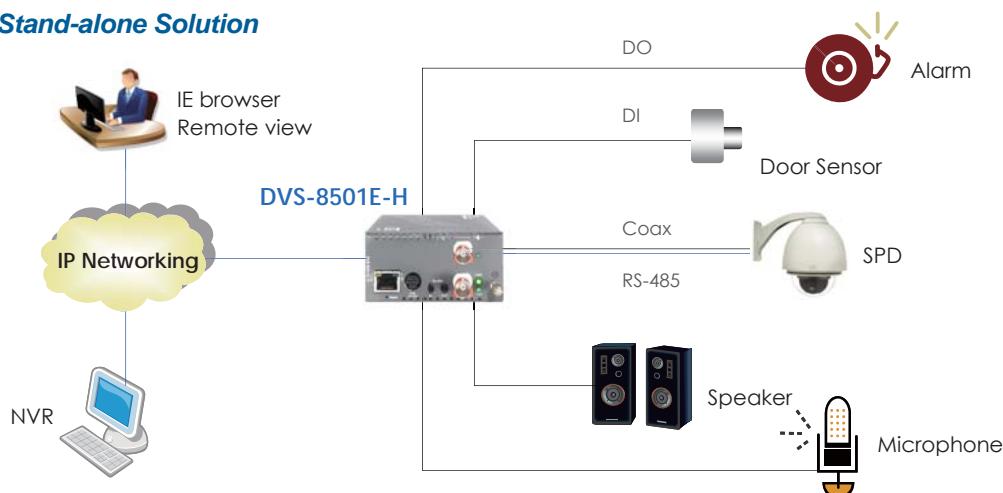
Features

- Multiple H.264 streams
- D1 resolution @ 30FPS(NTSC), @ 25FPS (PAL)
- 1 video in / out, 1 audio in / out
- Built-in Web server for management
- Supports HTTPS and password protection
- Supports 2.5" SATA hard-disk tray for local storage
- Provides main and sub video streams with different resolution
- Supports logic (AND / OR) event alarms
- Supports two-way audio
- 1 Digital Input / 1 Digital Output connections
- Supports privacy mask
- Fan less design

DVS 8501E-H Rack Solution



DVS 8501E-H Stand-alone Solution



Ordering Information

Model Name	Description
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DVS-8501E-H	1-Ch H.264 Digital Video Encoder with Hard Dish Interface
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Specifications

Video Compression

H.264/M-JPEG

Video Stream

Main Stream, Sub stream (Main Stream to select D1 or 4CIF)
(Slave stream only to select CIF or QCIF)

Video Resolutions

D1: 720x480(NTSC)/720x576(PAL)
4CIF: 704x480(NTSC)/704x576(PAL)
2CIF: 704x240(NTSC)/704x288(PAL)
CIF: 352x240(NTSC)/352x288(PAL)
QCIF: 176x120(NTSC)/176x144(PAL)

Operating System

Embedded Linux

Video Bit Rate

32K/64K/128K/256K/384K/512K/768K/1024K/1.5M/2M

Video Frame Rate

1 ~ 30 FPS

Video Quality

5 levels (Medium, standard, good, detailed, excellent), Auto

Video Input

1, BNC, 75 ohm, 1 Vp-p

Video Output

1, BNC, 75 ohm, 1 Vp-p

Network Connector

RJ-45, IEEE 802.3 10Base-T, 802.3u 100Base-TX

Network Protocols

TCP, UDP, IP, ICMP, PPPoE, ARP, UPnP, HTTP, HTTPS, FTP, SMTP, DHCP, DNS, DDNS, RTP, RTSP, SNMP, NTP, IGMP

Audio Inputs

1 channel audio, Microphone in

Audio Output

1 channel audio, Line out

Audio Compression

ADPCM G.711

Audio Stream

Two-way (H.264 only)

Input / Output Signal

6V p-p, +10dBm max

Input / Output Impedance

600 ohms

Terminal Block

1xRS-485 (DB9 interface), 1 alarm input, 1 alarm output

PTZ Protocol

Pelco D, P

PTZ Baud Rate

2400, 4800, 9600, 12800, 19200 Kbps

PTZ Control Speed

Pan, Tilt, Zoom, Focus, Iris

PTZ Preset

32 Preset positions

PTZ Patrol

4 Tour mode (Each mode has 10 positions)

Remote Management

Web (CGI)

Dimension

Line card type: 88 x 139 x 42.1mm (W x D x H)

Operating condition

-10 ~ 60 degree (Celsius)

Storage condition

-20 ~ 85 degree (Celsius)

Operating Humidity

0 ~ 95% (non-condensing)

Power Input

12VDC, 2A

System Reset

Reset button (factory default)

LED Indications

Power, LAN, video status

Motion Detection

Drag and drop configurable detection windows

Configuration Backup /Recovery

Web browser

Local Storage

2.5" SATA HDD *1 (Hard drive is not include)

Firmware Upgrade

Web browser

NTP

Sync with PC, Sync with NTP server, Manual

Video Adjustment

Brightness, contract, saturation, color tone level

User Account

Up to 10 user accounts for configurable

Event Action

FTP, E-mail, DO1, SMS, SNMP, remote storage, PTZ preset

Event Sending Path

FTP; E-mail (forwarding JPEG picture)

Digital Zoom

4x

Snapshot

Live view mode (JPEG format)

Playback

Playback via IE browser

Event Define

User define video frame rate and video resolution and video quality when alarm input and motion detection

Text Overlay

Configurable text color, background color, date/time, display position

Privacy Mask

Support 3 privacy mask window

System Language

English, Simplified Chinese, Traditional Chinese

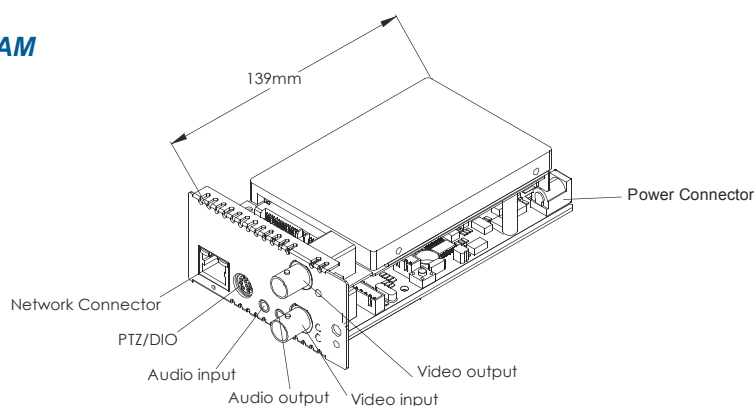
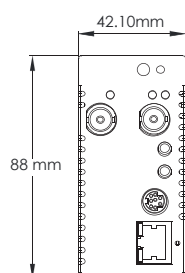
Log

System log, operating log

NVR Support

CTC Union , NUUO

DIMENSION DIAGRAM



4 - Ch H.264 Digital Video Encoder

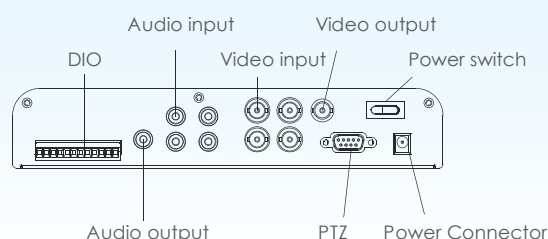
DVS-8504E-H



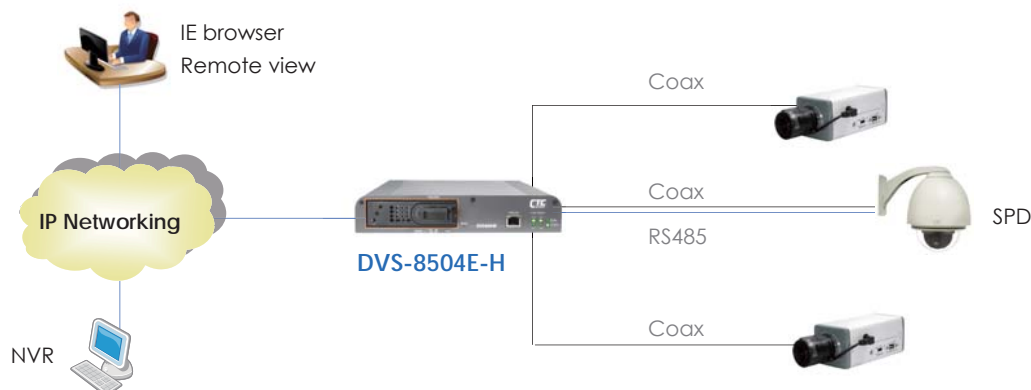
CTC Union DVS-8504E-H is a standalone H.264 video encoder. It can connect up to 4 analog video cameras and transfer these streams from analog format to digital format simultaneously through H.264 video compression technology. The DVS-8504E-H provides high resolution and various video layouts from 1CH/ D1 to 4CH/ CIF and can also delivers multiple or individual configurable video streams at the same time. The DVS-8504E-H can be also provides dual-stream transmissions for recording and monitoring. The built-in SATA interface enables powerful storage capability for the DVS-8504E-H to do the video streaming transmission and local storage at the same time. The web management offers the user convenience access to detailed alarm detection and actions. CTC Union DVS-8504E-H provides an easy way to migrate the analog system to high performance IP based solution.

Features

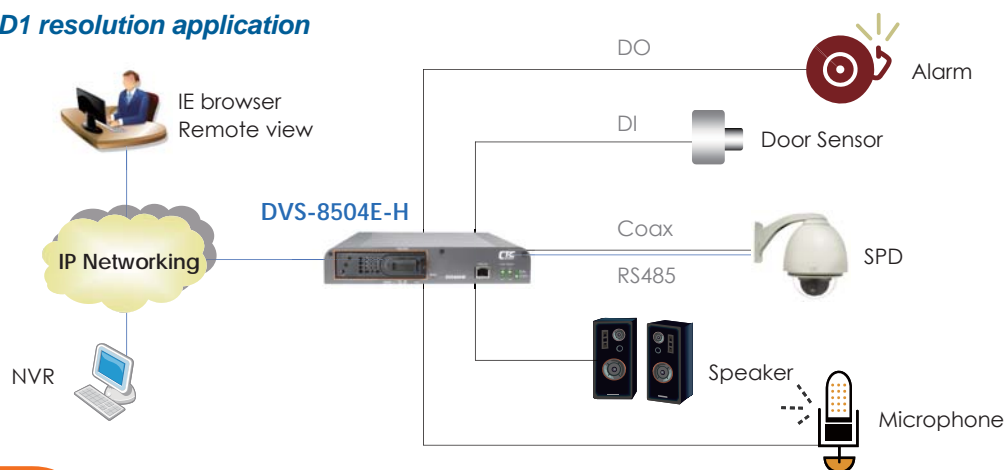
- Multiple H.264 streams
- D1 resolution @ 30FPS, CIF resolution@120FPS
- 1-CH D1 / 2-CH 2CIF / 4-CH CIF
- Built-in Web server for management
- Supports HTTPS and password protection
- Supports 3.5" SATA hard-disk tray for local storage
- Provides main and sub video streams with different resolution
- Supports logic (AND / OR) event alarms
- Supports two-way audio
- 4 Digital Input / 2 Digital Output connections
- Supports privacy mask
- Fan less design



DVS 8504E-H CIF resolution application



DVS 8504E-H D1 resolution application



Ordering Information

Model Name	Description
DVS-8504E-H	4-Ch H.264 Digital Video Encoder with Hard Dish Interface

Specifications

Video Compression

H.264/M-JPEG

Video Stream

Main Stream, Sub stream (Main Stream to select D1 or 4CIF)
(Slave stream only to select CIF or QCIF)

Video Resolutions

D1: 720x480(NTSC)/720x576(PAL)
4CIF: 704x480(NTSC)/704x576(PAL)
2CIF: 704x240(NTSC)/704x288(PAL)
CIF: 352x240(NTSC)/352x288(PAL)
QCIF: 176x120(NTSC)/176x144(PAL)

Operating System

Embedded Linux

Video Bit Rate

32K/64K/128K/256K/384K/512K/768K/1024K/1.5M/2M

Video Frame Rate

1 ~ 30 FPS

Video Quality

5 levels (Medium, standard, good, detailed, excellent), Auto

Video Input

4, BNC, 75 ohm, 1 Vp-p

Video Output

1, BNC, 75 ohm, 1 Vp-p
(D1/4CIF supported full screen, 2CIF/CIF supported quad mode)

Network Connector

RJ-45, IEEE 802.3 10Base-T, 802.3u 100Base-TX

Network Protocols

TCP, UDP, IP, ICMP, PPPoE, ARP, UPnP, HTTP, HTTPS, FTP, SMTP, DHCP,
DNS, DDNS, RTP, RTSP, SNMP, NTP

Audio Inputs

4 channels mono audio (RCA)

Audio Output

1 channel mono audio (RCA)

Audio Compression

ADPCM G.711

Audio Stream

Two-way (H.264 only)

Input / Output Signal

6V p-p, +10dBm max

Input / Output Impedance

600 ohms

Terminal Block

1xRS-485 (DB9 interface), 4 alarm input, 2 alarm output

PTZ Protocol

Pelco D, P

PTZ Baud Rate

2400, 4800, 9600, 12800, 19200 Kbps

PTZ Control Speed

Pan, Tilt, Zoom, Focus, Iris

PTZ Preset

32 Preset positions

PTZ Patrol

4 Tour mode (Each mode has 10 positions)

Remote Management

Web (CGI)

Dimension

Line card type: 238 x 257.4 x 44mm (W x D x H)

Operating condition

-10 ~ 60 degree (Celsius)

Storage condition

-20 ~ 85 degree (Celsius)

Operating Humidity

0 ~ 95% (non-condensing)

Power Input

12VDC, 2A

System Reset

Reset button (factory default)

LED Indications

Power, LAN, video status

Motion Detection

Drag and drop configurable detection windows

Configuration Backup /Recovery

Web browser

Local Storage

3.5" SATA HDD *1 (Hard drive is not include)

Firmware Upgrade

Web browser

NTP

Sync with PC, Sync with NTP server, Manual

Video Adjustment

Brightness, contract, saturation, color tone level

User Account

Up to 10 user accounts for configurable

Event Action

FTP, E-mail, DO1, DO2, SMS, SNMP, local storage, remote storage,
PTZ preset

Event Sending Path

FTP; E-mail (forwarding JPEG picture)

Digital Zoom

4x

Snapshot

Live view mode (JPEG format)

Playback

Playback via IE browser

Event Define

User define video frame rate and video resolution and video quality
when alarm input and motion detection

Text Overlay

Configurable text color, background color, date/time, display position

Privacy Mask

Support 1 privacy mask window

System Language

English, Simplified Chinese, Traditional Chinese

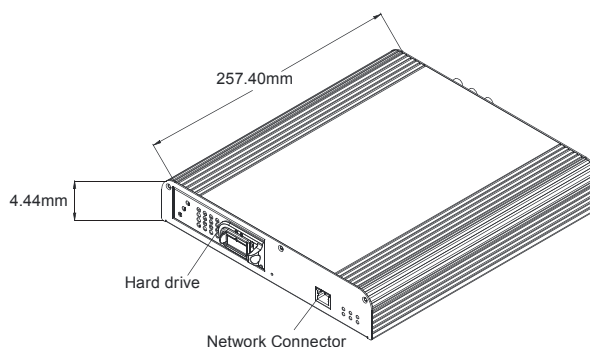
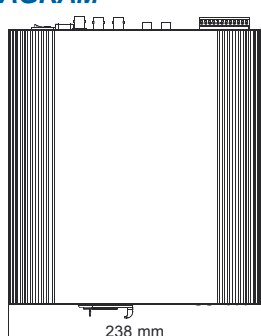
Log

System log, operating log

NVR Support

CTC Union , NUUO

DIMENSION DIAGRAM



1-Ch H.264 Digital Video Decoder

DVS-8501D

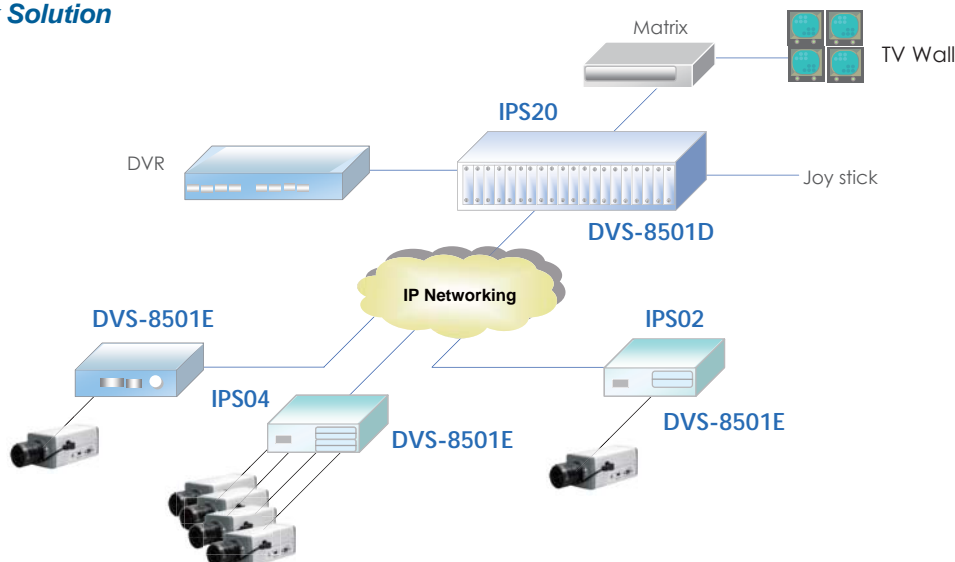


CTC Union DVS-8501D is a 1-ch video decoder with cutting edge H.264 video compression technology compatible with the CTC Union H.264 video encoders. It enables convert the digitalized video data back to analog format for various back-side devices such as TV wall, legacy DVR, and Joysticks. The DVS-8501D can decode video source up to 64 channels. When DVS-8501D blades are used with CTC IPS series racks with various channels choices, the DVS-8501D can become standalone type with VGA port for LCD monitor video output or rack type for professional installation in the control room.

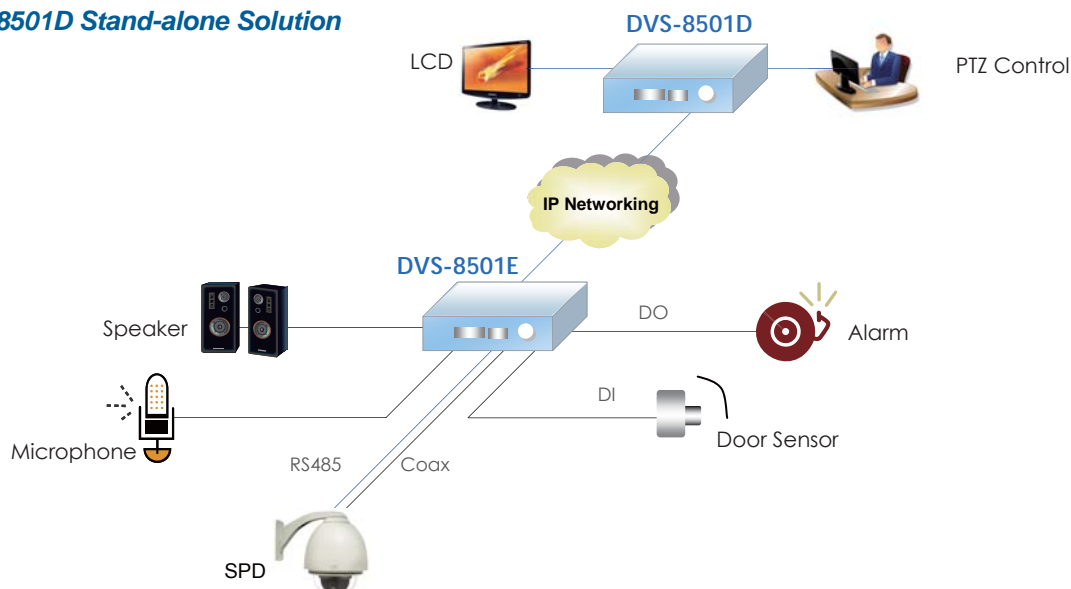
Features

- Complies with H.264 compression technology
- Provides high quality analog video and audio decoding
- Programmable sequence mode for multiple video sources
- Decodes video source up to 64 channels (Sequence display mode)
- Built-in Web server for easy management
- Supports secure management and encrypted video streams
- VGA port for stand-alone type (DVS-8501DV only)
- Supports two-way audio
- Card fits in one-slot or 20-slot chassis

DVS 8501D Rack Solution



DVS 8501D Stand-alone Solution



Specifications

Video Decoding

H.264 video with resolution up to D1
64 different video sources
(support manual cycling · automatic cycling)

Video Resolutions

D1 720x480(NTSC)/720x576(PAL)
4CIF: 704x480(NTSC)/704x576(PAL)
2CIF 704x240(NTSC)/704x288(PAL)
CIF 352x240(NTSC)/352x288(PAL)
QCIF 176x120(NTSC)/176x144(PAL)

Operating System

Embedded Linux

Frame rate

Frame rates up to 30 (NTSC) / 25 (PAL) in all resolution

Decoding Source

CTCU DVS-8504E-H / DVS-8501E / DVS-8501E-H / DVS-8504E-FD

Video Output

1, BNC, 75 ohm, 1 Vp-p (for DVS-8501D)
1 BNC & 1 VGA (for DVS-8501DV series product)

Output Channel

1 channel mono audio, 3.5mm phone jack

Audio Compression

ADPCM G.711

Microphone

Omni-directional

Alarm and PTZ Interface

RS-485 (DB9 Interface), 1x alarm input, 1x alarm output

Remote Management

Web (CGI)

Network Connector

RJ-45, IEEE 802.3 10Base-T, 802.3u 100Base-TX

Network Protocols

TCP, UDP, IP, ICMP, PPPoE, ARP, UPnP, HTTP, HTTPS, FTP, SMTP, DHCP, DNS, DDNS, RTP, RTSP

System Configuration

Backup and recovery all setting via web browser operation

Firmware Upgrade

Web browser

User Interface Language

English, Simplified Chinese, Traditional Chinese

Log

System log, operating log

Operating condition

-10 ~ 60 degree (Celsius)

Storage condition

-20 ~ 85 degree (Celsius)

Operating Humidity

Humidity 0 ~ 95% (non-condensing)

Power Input

12VDC, 1A

System Reset

Reset button (factory default)

LED Indications

Power, LAN, video status

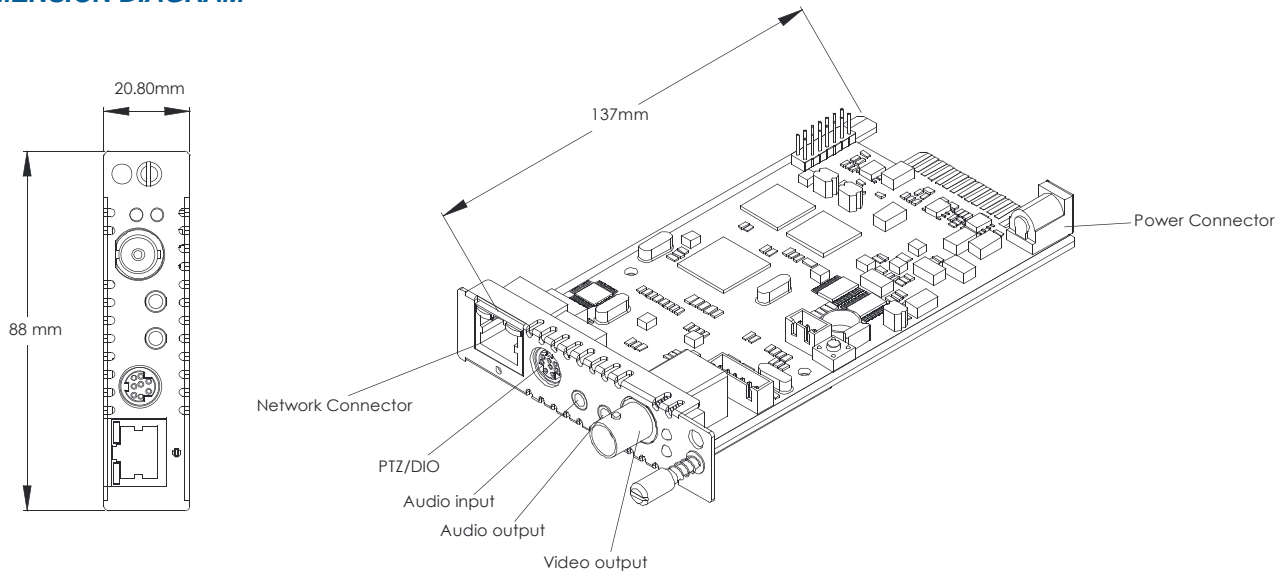
Dimension

Line card type: 88 x 137 x 20.8mm (W x D x H)

Net Weight

Line card type: 100g

DIMENSION DIAGRAM



Ordering Information

Model Name Description

DVS-8501D	1-Ch H.264 Digital Video Decoder
DVS-8501DV-DC	1-Ch H.264 Digital Video Decoder with VGA Connector and Internal DC power
DVS-8501DV-AC	1-Ch H.264 Digital Video Decoder with VGA Connector and Internal AC power

DVS –

Example: DVS – 8501D

1-Ch MPEG4 Digital Video Server

DVS-8301

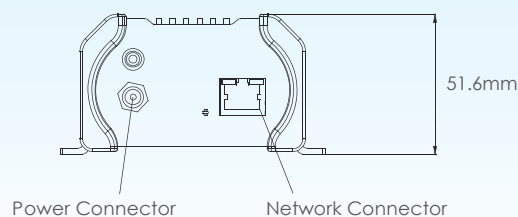


The DVS-8301 converts a single analog video stream to digital format. It delivers dual stream (MPEG-4 and MJPEG) @30 fps, 4CIF resolution for remote monitoring anywhere. In addition, the DVS-8301 supports 3GPP mobile protocol, which enables users to monitor via 3G cell phones or any RTSP (Real Time Streaming Protocol) compatible multimedia software on the go.

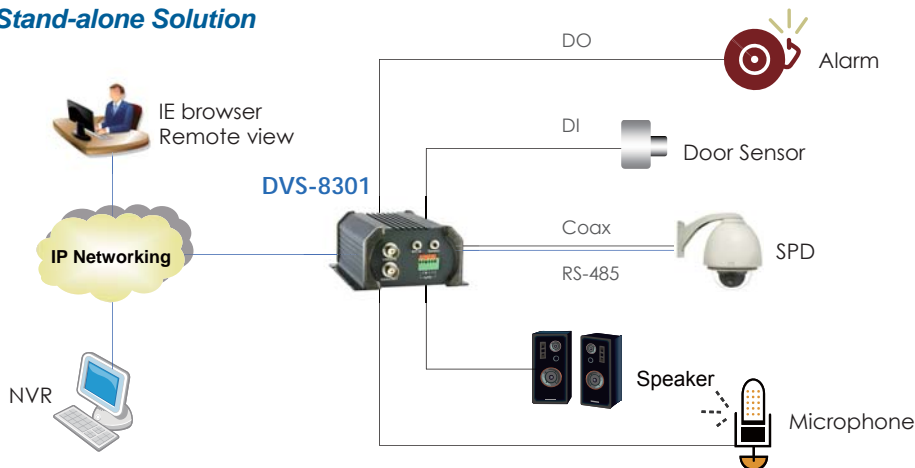
A complete set of security features includes user access management and HTTPS encryption. DVS-8301 provides one audio stream for two-way audio applications, is a PoE (Power over Ethernet) enabled unit and has powerful event management that includes image upload to FTP server, alarm notification and I/O control. Pan/Tilt/Zoom control is done over RS-485.

Features

- Simultaneous Motion-JPEG & MPEG-4 streams, up to 4CIF resolution
- Excellent image quality with up to 30 fps in all resolutions
- PoE (Power over Ethernet) enabled device
- Supports two-way audio
- Digital I/O for external alarm or sensor
- Supports 3GPP/ISMA RTSP
- Supports multiple PTZ control protocols through RS-485
- UPnP for fast and easy installation
- Bundled 16 channel surveillance software



DVS 8301E Stand-alone Solution



Ordering Information

Model Name	Description
DVS-8301	1-Ch MPEG4 Digital Video Encoder

Specifications

Video Input

BNC, looping, 75ohms, 1Vp-p

Video Compression

MPEG4 Simple Profile, Motion JPEG

Bit Rate

64K ~ 2Mbps

Video Adjustment

Brightness, Contrast, Hue, Saturation, Constant Bit Rate (CBR), Variable Bit Rate (VBR)

PTZ Interface

RS-485

PTZ protocols

Pelco D/P

PTZ application

32 preset position, 4 patrol function

Processor and memory

32 Bits RISC Processor, 8MB Flash, 64MB SDRAM, Embedded Linux

LED Indications

Network, Power

Ethernet

RJ-45 10BaseT/100BaseTX PoE

Terminal Block Connector

RS-485/1 alarm input/ 1 relay output

Audio streaming

Two-way

Audio Input

3.5 mm mic/line in

Audio Output

3.5 mm line out jack

Audio compression

ADPCM 64Kbps

Alarm Trigger

External input, Motion detection

Alarm Events

Pre and post alarm buffer

File upload via FTP

Notification via email

External output activation

Network Protocol

TCP/IP, DHCP, PPPoE, ARP, ICMP, FTP, SMTP, DNS, NTP, IGMP, UPnP, RTSP, RTP, HTTP, TCP, UDP, 3GPP/ISMA RTSP

Application Program

CTCU IP installer (Win32 Application)

16 channel recording software (SVP-Express)

Security

Password protection, HTTPS encryption, user access log

Operating Condition

0 ~ 50°C

Storage Condition

0 ~ 70°C

Operating Humidity

20 ~ 80% RH (non-condensing)

Power

12VDC, 1A

Dimension

119 x 98 x 51.6 mm (D x W x H)

Approvals

CE, FCC, RoHS

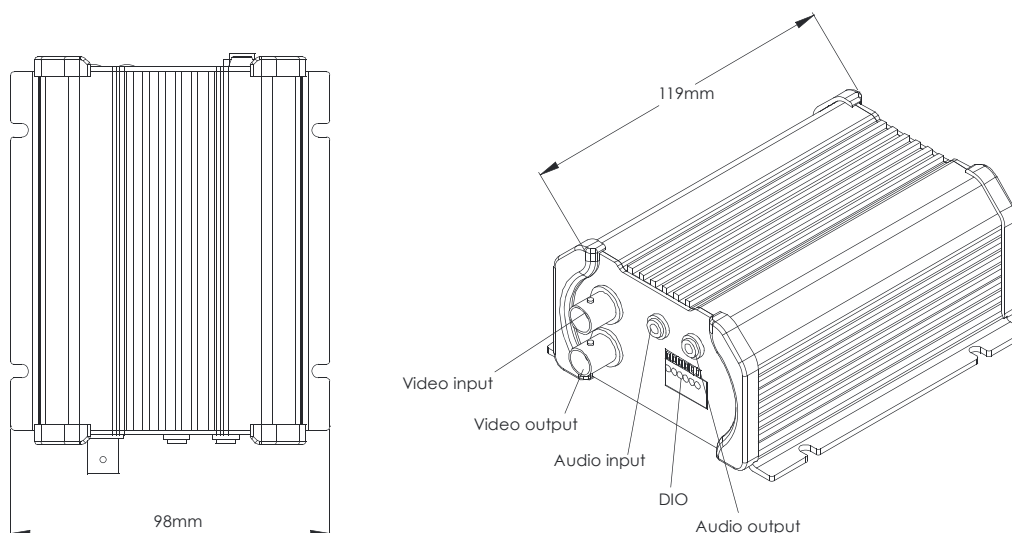
Include Accessories

CD with installation and management software, Power supply

NVR Support

CTC Union

DIMENSION DIAGRAM



1-Ch H.264 Intelligent Digital Video Encoder

iDVS-01



iDVS-01 (Intelligent Digital Video Server) not only offer highly-effective H.264 Video but also can analyze and identify at front side when the rule of alarm event were set up. Once event is triggered, iDVS-01 will transmit a video and snapshot with object frame and send alarm message to Alarm server and NVR.

Features

Video encoder

- Multiple H.264 streams
- D1 resolution @ 30FPS(NTSC), @ 25FPS (PAL)
- 1 video in / out, 1 audio in / out
- Built-in Web server for management
- Supports HTTPS and password protection
- Supports logic (AND / OR) event alarms
- Supports two-way audio
- 1 Digital Input / 1 Digital Output connections

Intelligent function

- Tripwire Detection
- Intrusion Detection
- Virtual Fence Detection
- Abandoned Objects Detection
- Video Loss Detection

Specifications

Intelligent analysis

Function

Tripwire Detection/ Intrusion Detection/ Virtual Fence Detection/ Abandoned Objects Detection/ Video Loss Detection

Video encoder

Operating System

Embedded Linux

Compression

H.264 / M-JPEG

Frame rate

30/25(NTSC/PAL) fps in all resolution

Video Stream

Multiple H.264 streams

Resolution

D1 720x480(NTSC)/720x576(PAL)
4CIF 704x480(NTSC)/704x576(PAL)
2CIF 704x240(NTSC)/704x288(PAL)
CIF 352x240(NTSC)/352x288(PAL)
QCIF 176x120(NTSC)/176x144(PAL)

Video Bit rate

32K/ 64K/ 128K/ 256K/ 384K/ 512K/ 768K/ 1024K/ 1.5M/ 2M

Video Quality

Medium / Standard / Good / Detailed / Excellent

Video Input / Output

1, BNC, 75 ohm, 1Vp-p

Image Adjustment

brightness, contrast, saturation, hue

Audio

Audio Streaming

Two way audio

Audio Compression

ADPCM G.711 (H.264)

Audio Input

1 channel Line in

Audio Output

1 channel Line out

Network

Ethernet

RJ-45, 10/100 Base-T

Remote Management

Web(CGI)

Network Protocols

RTSP, RTCP, RTP, TCP, IPV4, UDP(Unicast), HTTP, HTTPS, SMTP, NTP, DHCP, FTP, UPnP, DNS, DDNS, ARP, PPPOE

Firmware upgrade

Web Browser

NTP

Sync with PC, Sync with NTP server, Manual

Event

DIO

1-channel DI and 1-Channel DO

Motion Detection

Drag and drop configurable detection windows

Event Action

FTP, E-mail, DO, SMS

Event Sending path

FTP, E-mail (forwarding Snapshot picture)

Event define

User define video frame rate and video resolution and quality when alarm input and motion detection

General

Operation Temperature

-10 ~ 50°C

Storage Temperature

-20 ~ 60°C

Power Source

DC12V±10%

Power Consumption

3A Max

External Dimension

Line card type: 88 x 139 x 42.1mm(W x D x H)

Intelligent Video Analytics

Intrusion Detection



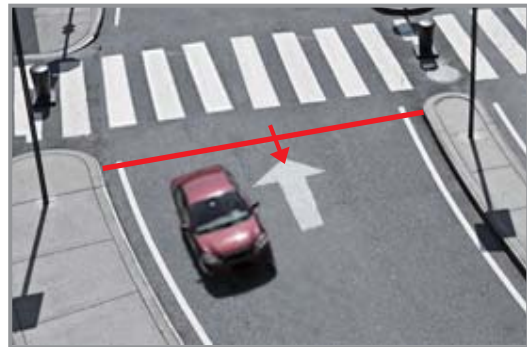
Abandoned Objects Detection



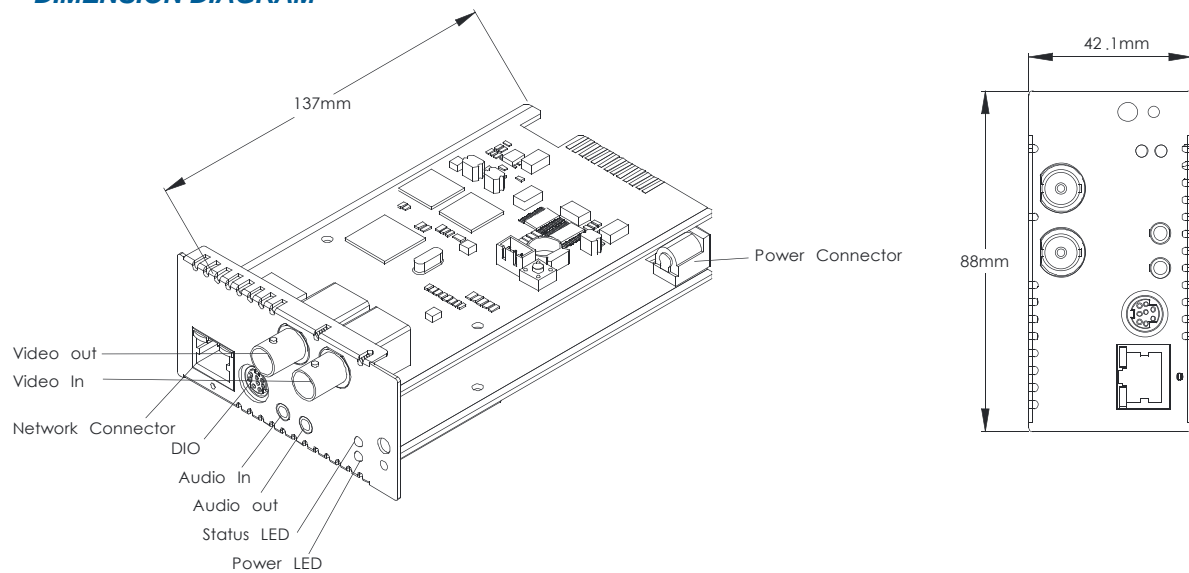
Tripwire Detection



Virtual Fence Detection



DIMENSION DIAGRAM



Ordering Information

Model Name	Description
iDVS01-S	1-Ch H.264 Intelligent Digital Video Encoder